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EIC 3600

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To: William Neuder  
Location: 2B07 OS  
Art Unit: 3672  
Wednesday, June 14, 2006

Case Serial Number: 10/824316

From: Etelka R. Griffin  
Location: EIC 3600  
KNOX/4B68  
Phone: 571-272-4230

Etelka.griffin@uspto.gov

## Search Notes

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618681 (09) 6394193 May 28, 2002

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6394193

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May 28, 2002

Downhole adjustable bent housing for directional drilling

**REISSUE:** April 14, 2004 - Reissue Application filed Ex. Gp.: 3671; Re. S.N. 10/824,316 (O.G. August 3, 2004)

**APPL-NO:** 618681 (09)

**FILED-DATE:** July 19, 2000

**GRANTED-DATE:** May 28, 2002


**ASSIGNEE-PRE-ISSUE:** July 19, 2000 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., SCHLUMBERGER TECHNOLOGY CORPORATION 110 SCHLUMBERGER DRIVESUGAR LAND, TEXAS, 77478, Reel and Frame Number: 011004/0642

**ASSIGNEE-AT-ISSUE:** Schlumberger Technology Corporation, Sugar Land, Texas, United States (US), United States company or corporation (02)

**CORE TERMS:** mandrel, housing, collar, groove, bent, adjustable, downhole, articulating, leg, actuation ...

**ENGLISH-ABST:**

The present invention provides a hydraulically actuated downhole adjustable bent housing for use in directional drilling of bore holes and wells that allows adjustment of the housing from aligned to a bent configuration without raising or lowering the drillstring. The present invention also provides a method of directionally drilling a bore hole or a well using an downhole adjustable bent housing that can be operated without raising or lowering the drillstring.

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Date/Time: Wednesday, June 14, 2006 - 12:27 PM EDT



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**Suggested Words and Concepts for Entered Terms:**

six-tenth	game	inning	victory
rose	shot	New York	Commerce Department
scored	team	played	round
consumer	economist	goal	home
inflation	pitch	hole	income
price	race	spending	straight

Syntax	Def
and	and
or	or
w/N	withi
not w/N	not v
pre./N	prec
w/p	in se
not w/p	not i
w/seg	in se
not w/seg	not i
w/s	in se
not w/s	not i
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Syntax	Def
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or	or
w/N	withi
not w/N	not v
pre /N	prec
w/p	in se
not w/p	not i
w/seg	in se
not w/seg	not i
w/s	in se
not w/s	not i
and not	and
	<a href="#">View</a>

### Suggested Words and Concepts for Entered Terms:

six-tenth	game	inning	victory
rose	shot	New York	Commerce Department
scored	team	played	round
consumer	economist	goal	homer
inflation	pitch	hole	income
price	race	spending	straight

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1 / 1 PLUSPAT - @QUESTEL-ORBIT

**Patent Number :**

US6394193 B1 20020528 [US6394193]

**Title :**

(B1) Downhole adjustable bent housing for directional drilling

**Patent Assignee :**

(B1) SCHLUMBERGER TECHNOLOGY CORP (US)

**Patent Assignee :**

Shlumberger Technology Corporation, Sugar Land TX [US]

**Inventor(s) :**

(B1) ASKEW WARREN (US)

**Application Nbr :**

US61868100 20000719 [2000US-0618681]

**Priority Details :**

US61868100 20000719 [2000US-0618681]

**Intl Patent Class :**

(B1) E21B-007/04

**IPC Advanced All :**

E21B-007/06 [2006-01 A - I R M EP]; E21B-023/04 [2006-01 A - I R M EP]

**IPC Core All :**

E21B-007/04 [2006 C - I R M EP]; E21B-023/00 [2006 C - I R M EP]

**EPO ECLA Class :**

E21B-007/06K

E21B-023/04

**US Patent Class :**

ORIGINAL (O) : 175061000; CROSS-REFERENCE (X) : 175073000

**Document Type :**

Basic

**Citations :**

US5363929; US5535835; US5725061; US5727641; US5735357; US6109372

**Publication Stage :**

(B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001

**Abstract :**

The present invention provides a hydraulically actuated downhole adjustable bent housing for use in directional drilling of bore holes and wells that allows adjustment of the housing from aligned to a bent configuration without raising or lowering the drillstring. The present invention also provides a method of directionally drilling a bore hole or a well using an downhole adjustable bent housing that can be operated without raising or lowering the drillstring.

**Update Code :**

2002-23

1 / 1 LGST - @EPO

**Patent Number :**

US6394193 B1 20020528 [US6394193]

**Application Number :**

US61868100 20000719 [2000US-0618681]

**Action Taken :**

20000719 US/AS-A

ASSIGNMENT

OWNER: SCHLUMBERGER TECHNOLOGY CORPORATION 110 SCHLUMBERG; EFFECTIVE

DATE: 20000719

ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:ASKEW,

WARREN;REEL/FRAME:011004/0642

20020723 US/CC-A

CERTIFICATE OF CORRECTION

20040803 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20040414  
**Update Code :**  
2004-34

1 / 1 CRXX - @CLAIMS/RRX  
**Patent Number :**  
6,394,193 A 20020528 [US6394193]  
**Patent Assignee :**  
Schlumberger Technology Corp  
**Actions :**  
20040414 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20040803  
REISSUE REQUEST NUMBER: 10/824316  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3671

Reissue Patent Number:

Query/Command : PRT SS 1 MAX 1 LEGAL

1 / 1 INPADOC - @INPADOC

**Patent Number :**

US 6394193 BA 20020528 [US6394193]

**Title :**

DOWNHOLE ADJUSTABLE BENT HOUSING FOR DIRECTIONAL DRILLING

**Inventor(s) :**

ASKEW WARREN [US]

**Patent Assignee (Words) :**

SCHLUMBERGER TECHNOLOGY CORP [US]

**Application Details :**

US 618681/00-A 20000719 [2000US-0618681]

**Priority Details :**

US 618681/00-A 20000719 [2000US-0618681]

**Intl. Patent Class. :**

E21B-007/04

1 / 1 LGST - @EPO

**Patent Number :**

US6394193 B1 20020528 [US6394193]

**Application Number :**

US61868100 20000719 [2000US-0618681]

**Action Taken :**

20000719 US/AS-A

ASSIGNMENT

OWNER: SCHLUMBERGER TECHNOLOGY CORPORATION 110 SCHLUMBERG; EFFECTIVE

DATE: 20000719

ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:ASKEW,

WARREN;REEL/FRAME:011004/0642

20020723 US/CC-A

CERTIFICATE OF CORRECTION

20040803 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20040414

**Update Code :**

2004-34